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D. Sriram, R. Joobbani

January 1985 **ACM SIGART Bulletin**, Issue 91

Full text available: pdf(8.79 MB) Additional Information: full citation, abstract

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

2 Field studies I: Ordering systems: coordinative practices in architectural design and planning

Kjeld Schmidt

November 2003 **Proceedings of the 2003 international ACM SIGGROUP conference on Supporting group work**

Full text available: pdf(759.99 KB) Additional Information: full citation, abstract, references, citings, index terms

In their cooperative effort, architects depend critically on elaborate coordinative practices and artifacts. The paper presents, on the basis of an in-depth study of architectural work, an analysis of these practices and artifacts and shows that they are multilaterally interrelated and form complexes of interrelated practices and artifacts which we have dubbed 'ordering systems'. In doing so, the paper outlines a conceptual framework for investigating and conceiving of such practices.

Keywords: architectural work, classification, common information spaces, coordinative artifacts, indexation

3 Machine interpretation of CAD data for manufacturing applications

Qiang Ji, Michael M. Marefat

September 1997 **ACM Computing Surveys (CSUR)**, Volume 29 Issue 3

Full text available: pdf(1.90 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Machine interpretation of the shape of a component for CAD databases is an important problem in CAD/CAM, computer vision, and intelligent manufacturing. It can be used in

CAD/CAM for evaluation of designs, in computer vision for machine recognition and machine inspection of objects, and in intelligent manufacturing for automating and integrating the link between design and manufacturing. This topic has been an active area of research since the late '70s, and a significant number of computat ...

Keywords: artificial intelligence, automated process planning, computer-aided design, computer-integrated manufacturing, feature recognition, flexible automation

4 Computer Aided Software Engineering (CASE)
F. W. Day
June 1983 **Proceedings of the 20th conference on Design automation**
Full text available: pdf(754.25 KB) Additional Information: full citation, abstract, references, index terms

This paper describes a system methodology, Computer Aided Software Engineering (CASE) as applied to a Bell Laboratories Computer Aided Design System (BELLCAD). This methodology can effectively assist personnel during the analysis, engineering, design, implementation and management phases of the development of large and complex Computer Aided Design Systems.

Keywords: Data flow diagrams, Data model, Methodology, Software engineering, Structural analysis, System engineering

5 A reference kernel model for feature-based CAD systems supported by conditional attributed rewrite systems
Ferruccio Mandorli, Harald E. Otto, Fumihiko Kimura
June 1993 **Proceedings on the second ACM symposium on Solid modeling and applications**
Full text available: pdf(1.15 MB) Additional Information: full citation, references, citings, index terms

6 VRML in architectural construction documents: a case study
Dace A. Campbell
February 1998 **Proceedings of the third symposium on Virtual reality modeling language**
Full text available: pdf(856.92 KB) Additional Information: full citation, references, index terms

7 Electronically-mediated partnerships: the use of CAD technologies in supplier relations
M. Bensaou
January 1999 **Proceeding of the 20th international conference on Information Systems**
Full text available: pdf(238.89 KB) Additional Information: full citation, references, citings, index terms

8 The social life of engineering authorizations
William A. Stubblefield, Karen S. Rogers
August 2000 **Proceedings of the conference on Designing interactive systems: processes, practices, methods, and techniques**
Full text available: pdf(633.38 KB) Additional Information: full citation, abstract, references, index terms

We may view documents, not only as containers for information, but also as active participants in organizing and sustaining communities. This paper discusses our experiences

in designing a web-based tool for writing and managing engineering authorizations, and the social perspectives influence on our understanding of the problem and the design of our system. It presents observations based on our fieldwork with users, and the evaluation of a set of prototype systems. It shows how these obs ...

Keywords: community, design ethnography, documents, metaphor, system design

9 Reconstruction of 3D virtual buildings from 2D architectural floor plans
Clifford So, George Baciu, Hanqiu Sun
November 1998 **Proceedings of the ACM symposium on Virtual reality software and technology**
Full text available: pdf(2.10 MB) Additional Information: full citation, references, citings, index terms

Keywords: 3D extrusion, architectural design, floor plan, virtual reality modeling

10 Gardeners and gurus: patterns of cooperation among CAD users
Michelle Gantt, Bonnie A. Nardi
June 1992 **Proceedings of the SIGCHI conference on Human factors in computing systems**
Full text available: pdf(1.53 MB) Additional Information: full citation, abstract, references, citings, index terms

We studied CAD system users to find out how they use the sophisticated customization and extension facilities offered by many CAD products. We found that users of varying levels of expertise collaborate to customize their CAD environments and to create programmatic extensions to their applications. Within a group of users, there is at least one local expert who provides support for other users. We call this person a local developer. The local developer is a fellow domain ex ...

Keywords: CAD, cooperative work, end user programming

11 Performance evaluation of software architectures
Lloyd G. Williams, Connie U. Smith
October 1998 **Proceedings of the 1st international workshop on Software and performance WOSP '98**
Full text available: pdf(2.42 MB) Additional Information: full citation, references, citings, index terms

12 Representations for Rigid Solids: Theory, Methods, and Systems
Aristides G. Requicha
December 1980 **ACM Computing Surveys (CSUR)**, Volume 12 Issue 4
Full text available: pdf(2.47 MB) Additional Information: full citation, references, citings, index terms

13 PIRAMED project an integrated CAD/CAM system development
R. W. Srch
January 1977 **Proceedings of the 14th conference on Design automation**
Full text available: pdf(745.39 KB) Additional Information: full citation, abstract, references, index terms

A study was conducted in 1976 by GTE Automatic Electric Laboratories to determine what is required to more effectively support product (e.g., Electronic Switching System) development and product manufacturing by GTE Automatic Electric. The results of the study was a project proposal (PIRAMED). The PIRAMED System is being developed from the basic perspective that Computer Aided Design and Computer Aided Manufacturing must not be separate, disjoint functions but, instead, integrate ...

14 Computer graphics and architecture: state of the art and outlook for the future
Julie Dorsey, Leonard McMillan
February 1998 **ACM SIGGRAPH Computer Graphics**, Volume 32 Issue 1

Full text available: pdf(2.81 MB) Additional Information: full citation, abstract, citings, index terms

During the three decades since Ivan Sutherland introduced the Sketchpad system [7], there has been an outpouring of computer graphics systems for use in architecture [3, 5]. In response to this development, most of the major architectural firms around the world have embraced the idea that computer literacy is mandatory for success. We would argue, however, that most of these recent developments have failed to tap the potential of the computer as a design tool. Instead, computers have been relega ...

15 Human-computer interface development: concepts and systems for its management
H. Rex Hartson, Deborah Hix
March 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 1

Full text available: pdf(7.97 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Human-computer interface management, from a computer science viewpoint, focuses on the process of developing quality human-computer interfaces, including their representation, design, implementation, execution, evaluation, and maintenance. This survey presents important concepts of interface management: dialogue independence, structural modeling, representation, interactive tools, rapid prototyping, development methodologies, and control structures. *Dialogue independence* is th ...

16 Dissertation Abstracts in Computer Graphics
January 1992 **ACM SIGGRAPH Computer Graphics**, Volume 26 Issue 1

Full text available: pdf(2.53 MB) Additional Information: full citation

17 Web-based and Java-based simulation: Distributed web-based component architectures: a model-based approach for component simulation development
Perakath Benjamin, Dursun Delen, Richard Mayer, Timothy O'Brien
December 2000 **Proceedings of the 32nd conference on Winter simulation**

Full text available: pdf(377.27 KB) Additional Information: full citation, abstract, references

The increasing complexity of systems has enhanced the use of simulation as a decision-support tool. Often, simulation is the only scientific methodology available to practitioners for the analysis of complex systems. However, only a small fraction of the practical benefits of simulation modeling and analysis have reached the potentially large user community because of the relatively high requirement of time, effort, and cost needed to *build* and *successfully use* simulation models. I ...

18 Cooperative hypermedia systems: a Dexter-based architecture
Kaj Grønbæk, Jens A. Hem, Ole L. Madsen, Lennert Sloth
February 1994 **Communications of the ACM**, Volume 37 Issue 2

Full text available: pdf(3.97 MB) Additional Information: full citation, references, citings, index terms

Keywords: CSCW, Dexter model, hypermedia, hypertext, object-oriented database, open systems, shared materials

19 Construction engineering and project management: Construction engineering and project management I: building a virtual shop model for steel fabrication

Lingguang Song, Simaan M. AbouRizk

December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation**

Full text available: pdf(487.44 KB) Additional Information: full citation, abstract, references

Steel fabrication is a complex process, which encompasses product uniqueness, a high product mix, and a number of activities involving a variety of equipment and labor disciplines. The steel fabrication industry needs advanced tools and techniques in order to estimate, plan, and control fabrication shops. This paper proposes a system for building virtual fabrication shop models capable of estimating, scheduling, and analyze production. The system defines conceptual models for product, process ...

20 A summary of architectural involvement with computers

C. James Olsten

June 1971 **Proceedings of the 8th workshop on Design automation**

Full text available: pdf(522.76 KB) Additional Information: full citation, abstract, references, index terms

The architectural profession is generally considered by its members to be engaged in the practice of an art and as such has resisted for a time the application of computer aids to the design process. This process is concerned with the organization and specification of the built environment which houses man for work or pleasure. For those in architecture familiar with the computer, the pace of the profession's involvement has been slow. This paper covers some of the past developments that ha ...

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by *Cherneff, Jonathan Martin*, Ph.D., **Massachusetts Institute of Technology**, 1990; AAT 0570246
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